

DOCUMENT RESUME

ED 297 933

SE 048 975

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TITLE Perspectives on Research on Effective Mathematics Teaching. Volume 1.
INSTITUTION National Council of Teachers of Mathematics, Inc., Reston, Va.
REPORT NO ISBN-0-87353-254-6
PUB DATE 88
NOTE 261p.
AVAILABLE FROM National Council of Teachers of Mathematics, 1906 Association Drive, Reston, VA 22091 (\$15.00).
PUB TYPE Reports - Research/Technical (143) -- Collected Works - Conference Proceedings (021)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS *Computer Assisted Instruction; Computer Uses in Education; Cross Cultural Studies; Educational Research; *Elementary School Mathematics; Elementary Secondary Education; Fractions; Logical Thinking; Mathematics Curriculum; Mathematics Education; *Mathematics Instruction; *Secondary School Mathematics; *Teacher Effectiveness
IDENTIFIERS *Mathematics Education Research

ABSTRACT

The papers and conference proceedings recorded in this monograph are from a conference on effective mathematics teaching. In addition to acknowledgements, foreword, introduction and participant list, the following articles are included: (1) "Teaching for Higher-Order Thinking in Mathematics: The Challenge for the Next Decade"; (2) "Interaction, Construction, and Knowledge: Alternative Perspectives for Mathematics Education"; (3) "Expertise in Instructional Lessons: an Example from Fractions"; (4) "Implications of Research on Pedagogical Expertise and Experience for Mathematics Teaching"; (5) "Content Determinants in Elementary School Mathematics"; (6) "Research and the Improvement of Mathematics Instruction: The Need for Observational Resources"; (7) "From Fragmentation to Synthesis: An Integrated Approach to Research on the Teaching of Mathematics"; (8) "Computer Usage in the Teaching of Mathematics: Issues That Need Answers"; (9) "Cross-Cultural Studies of Mathematics Teaching and Learning: Recent Findings and New Directions"; (10) "Can Teachers Be Professionals?"; (11) "Pervasive Themes and Some Departure Points for Research Into Effective Mathematics Teaching"; and (12) "An Agenda for Research on Teaching Mathematics". (PK)

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